

### AMENDMENTS TO THE CLAIMS

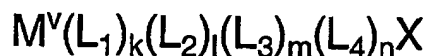
This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) A process for the preparation of a metal-organic compound, comprising at least one imine ligand, characterized in that an imine ligand according to formula 1 or the HA adduct thereof, wherein HA represents an acid, of which H represents its proton and A its conjugate base, is contacted with a metal- organic reagent of formula 2 in the presence of 1, respectively 2 equivalents of a base, with



as formula 1,

wherein Y is selected from a substituted carbon, nitrogen, or phosphorous atom and R represents a substituent, and with



as formula 2,

wherein: M represents a group 4 or group 5 metal ion

V represents the valency of the metal ion, being 3, 4 or 5

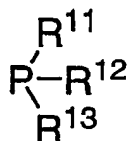
L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub>, and L<sub>4</sub> represent a ligand or a group 17 halogen atom on M and may be equal or different, at least one of the ligands L is chosen from cyclopentadienyl, C<sub>1</sub>-C<sub>20</sub> hydrocarbyl (optionally containing hetero- or group 17 halogen atoms), substituted cyclopentadienyls, indenyl, C<sub>1</sub>-C<sub>20</sub> hydrocarbyl substituted indenyls, and halogen substituted C<sub>1</sub>-C<sub>20</sub> hydrocarbyl substituted indenyls

X represents a group 17-halogen atom,

k, l, m, n = 0, 1, 2, 3, 4 with k+l+m+n+1=V.

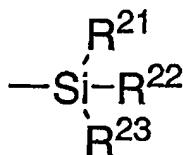
2. (original) A process according to claim 1 wherein R represents a hydrogen atom and wherein Y is selected from the group consisting of

i) a phosphorus substituent defined by the formula:



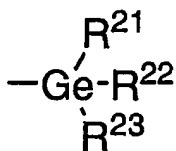
(formula 3)

wherein each  $R^{1j}$ , with  $j = 1-3$  is independently selected from the group consisting of a hydrogen atom, a halogen atom, a  $C_{1-8}$  alkoxy radical, a  $C_{6-10}$  aryl or aryloxy radical, an amido radical, or a  $C_{1-20}$  hydrocarbyl radical unsubstituted or substituted by a halogen atom, a  $C_{1-8}$  alkoxy radical, a  $C_{6-10}$  aryl or aryloxy radical, an amido radical, a silyl radical of the formula:



(formula 4)

or a germanyl radical of the formula:

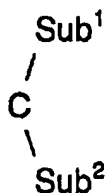


(formula 5)

wherein  $R^{2j}$  is independently selected from the group consisting of hydrogen, a  $C_{1-8}$  alkyl or alkoxy radical,  $C_{6-10}$  aryl or aryloxy radicals,

each substituent  $R^{1j}$  or  $R^{2j}$  may be linked with another  $R^1$  or  $R^2$  to form a ring system,

ii) a substituent defined by formula 6:



(formula 6)

wherein each of Sub<sup>1</sup> and Sub<sup>2</sup> is independently selected from the group consisting of hydrocarbyl radicals having from 1 to 30 carbon atoms; silyl radicals, (substituted) amido radicals and (substituted) phosphido radicals, and wherein Sub<sup>1</sup> and Sub<sup>2</sup> may be linked with each other to form a ring system.

3. (currently amended) A process according to ~~claim 1-2~~ claim 1, wherein the base is a dialkylamine, a trialkylamine, a monoarylamine, diarylamine or a triarylamine.

4. (currently amended) A process according to ~~claim 1-3~~ claim 1, wherein the base is triethylamine, pyridine, tripropylamine, tributylamine, 1, 4-diaza-bicyclo [2.2. 2] octane, pyrrolidine or piperidine.

5. (currently amended) A process according to ~~claim 1-2~~ claim 1, wherein the base is a carboxylate, a fluoride, a hydroxide, a cyanide, an amide, a carbonate of Li, Na, K, Rb, Cs, or an ammonium salt or a group 2 metal salt of Mg, Ca, or Ba thereof, an alkali metal (Li, Na, K, Rb, Cs) phosphate, or phosphate ester, or their alkoxides or phenoxides, thallium hydroxide, alkylammonium hydroxides or fluorides, or alkali metals, hydrides or carbonates of Li, Na, K, Rb, Cs or group 2 hydrides.

6. (original) A process according to claim 5, wherein the alkali metal is chosen from Li, Na, or K.

7. (currently amended) A process according to ~~claim 1-2~~ claim 1, wherein the base is a group 1, 2, 12,13 hydrocarbanion.

8. (original) A process according to claim 7, wherein the base is an organomagnesium- or an organolithium compound.

9. (currently amended) A process according to ~~claim 1, 2, 7 or 8~~ claim 1, carried out in the presence of 3 respectively 4 equivalents of an organolithium- or an organomagnesium compound.

10. (currently amended) A process according to ~~claim 1-9~~ claim 1 wherein the reaction is carried out in an aprotic solvent.

11. (original) A process according to claim 10, wherein the solvent is the base.

12. (currently amended) Process for the preparation of a polyolefin by making a metal-organic compound according to the process of ~~claims 1-11~~ claim 1, wherein the base is an olefin polymerisation compatible base, which metal-organic compound is activated anywhere in, or before a polymerisation reactor.

13. (original) Process according to any of claims 12, wherein the metal-organic compound is formed used without purification.

14. (currently amended) Process according to claim 12 ~~or 13~~, wherein the metal-organic compound is formed in the polymerisation equipment.

15. (original) Process according to claim 14, in the presence of between 5 and 10 equivalents of the imine ligand according to formula 1.